

Tech specs

RESIDENCE LINE

FireProtect 2 RB (Heat/CO) Jeweller

Wireless combined heat and CO detector with replaceable batteries



Device compatibility

Check

Communication

📶 Jeweller communication technology

Proprietary wireless technology for transmission of alarms and events.

Features:

- Two-way communication.
- Protection against device spoofing.
- Block encryption featuring a floating key.
- Instant notifications.
- Remote configuration via the Ajax apps.

Learn more >

Radio frequency bands

866.0 – 866.5 MHz

868.0 – 868.6 MHz

868.7 – 869.2 MHz

905.0 – 926.5 MHz

915.85 – 926.5 MHz

921.0 – 922.0 MHz

Depends on the region of sale.

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,700 m

Between the detector and a hub (or radio signal range extender) in an open space.

Calculate radio communication range at the facility >

Encryption of radio communication

All the data stored and transmitted are protected by block encryption with a floating key.

Radio frequency hopping

To prevent radio interference and jamming.

Learn more >

Sensitive elements

heat sensor

CO (carbon monoxide) sensor

Dangerous temperature detection

Sensitive element

according to the requirements for Class A1R heat detectors

Requirements of EN 54-5 and BS 5446-2 standards.

High temperature alarm

at temperatures above 64°C

Temperature spike alarm

when the temperature rises more than 10°C in 1 minute or less

Carbon monoxide (CO) detection

Sensitive element

chemical CO sensor

Alarm if accumulated dose of CO is exceeded

more than 50 ppm (0.005%) – no more than in 90 minutes

more than 100 ppm (0.01%) – no more than in 40 minutes

more than 300 ppm (0.03%) – no more than in 3 minutes

CO concentration of 400 ppm (0.04%) within 3 hours can be life-threatening. The detector stops notifying about the dangerous level of carbon monoxide when the concentration drops to 50 ppm (0.005%) within one minute.

Sensor life

10 years

After 10 years of operation, the detector must be replaced with a new one.

Additional features

In-built siren

volume 85 dB at a distance of 3 meters

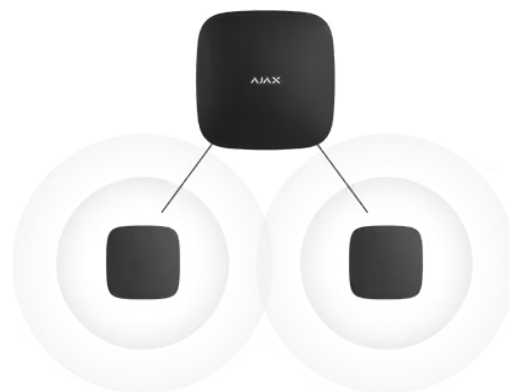
Sound notification of alarms. Active until the reason for triggering is eliminated or until the user disables notification.



Interconnected fire detectors alarms

via primary interconnection

If one of the fire detectors in the system detects a threat, it sends an alarm to the hub. Within 20 seconds, the hub initiates an interconnected alarm and sends data to Ajax apps.



via fallback interconnection¹

At the same time with notifying the hub, the initiating detector sends an alarm directly to other detectors. All connected detectors activate the buzzer within a minute. It will work even in the worst-case scenario of losing connection with the hub.

Learn more >

¹ Fallback interconnected alarm is available only for FireProtect 2 detectors with firmware version 5.59.2.XX or later. Devices that support the fallback interconnected alarm are marked on the package with a “Fallback interconnect supported” label.

LED indication

green is a power indication

A LED indicator on the device enclosure lights up once every 56 seconds. The indication meets the requirements of EN 50291.

yellow is an indication of malfunctions

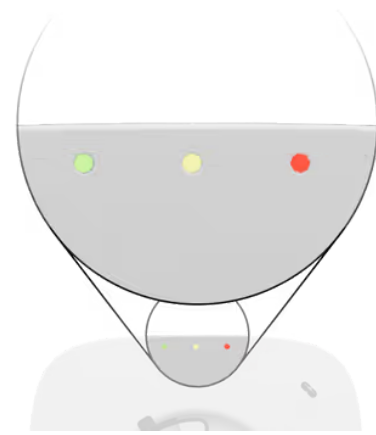
A LED indicator on the device enclosure lights up when malfunctions are detected. For example, if the battery is low.

red is an indication of fire alarms

A LED indicator on the device enclosure lights up when the detector registers a fire alarm.

Button on the front panel of the detector

In normal mode, runs the detector test when pressed. In the event of an alarm or malfunction, the pressing turns off the detector sound notification.



Recommendations

The device is designed only for indoor installation. SmartBracket mounting panel allows adjusting the position of the detector after installation.

Anti-sabotage protection

Tampering alarm

Alerts of attempts to detach the detector from the surface or remove the mounting panel.

[Learn more](#) >

Protection against spoofing

device authentication

Detection of communication failure

within 15 minutes

The time to detect communication loss depends on the settings for the number of undelivered data packages (specified in the **Jeweller** or **Jeweller/Fibra** settings). The polling interval is fixed at 300 seconds.

[Learn more](#) >

Power supply

For FireProtect 2 RB (Heat/CO)

2 × CR123A battery

Up to 7 years of battery life.

Enclosure

Dimensions

44 × 86 × 86 mm

Weight

149 g

Operating temperature range

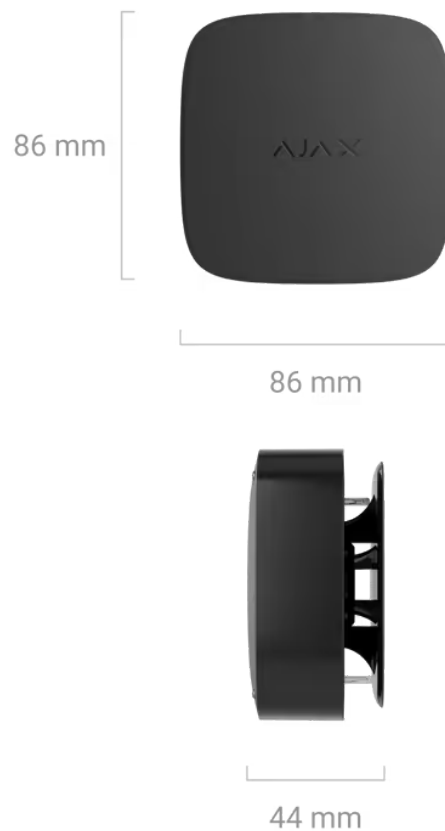
from 0°C to +50°C

Operating humidity

up to 80%

Protection class

IP20



Colours

Black

White



Complete set

FireProtect 2 RB (Heat/CO) Jeweller

SmartBracket mounting panel

Installation kit

2 × CR123A battery (pre-installed)

Quick Start Guide

Certification and compliance with standards



FireProtect 2 RB (Heat/CO) Jeweller



Additional information

[Compliance with standards](#)

[User manual](#)

Learn more >

Learn more >

Warranty

24 months

Learn more >

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Rating 4.8

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Fibra wired protocol

Ajax radio protocols

Software

Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

Ajax PRO Desktop

Ajax Response

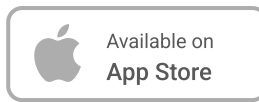
Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

Scenarios



Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Wired Grade 3 solution

Video surveillance solution

Integration with Yale smart locks

Water damage prevention

Upgrades and retrofits

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